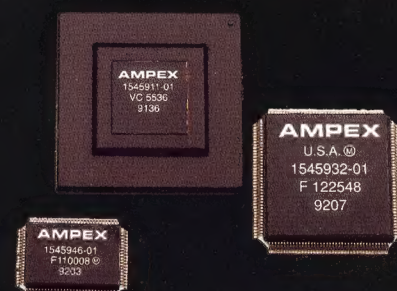
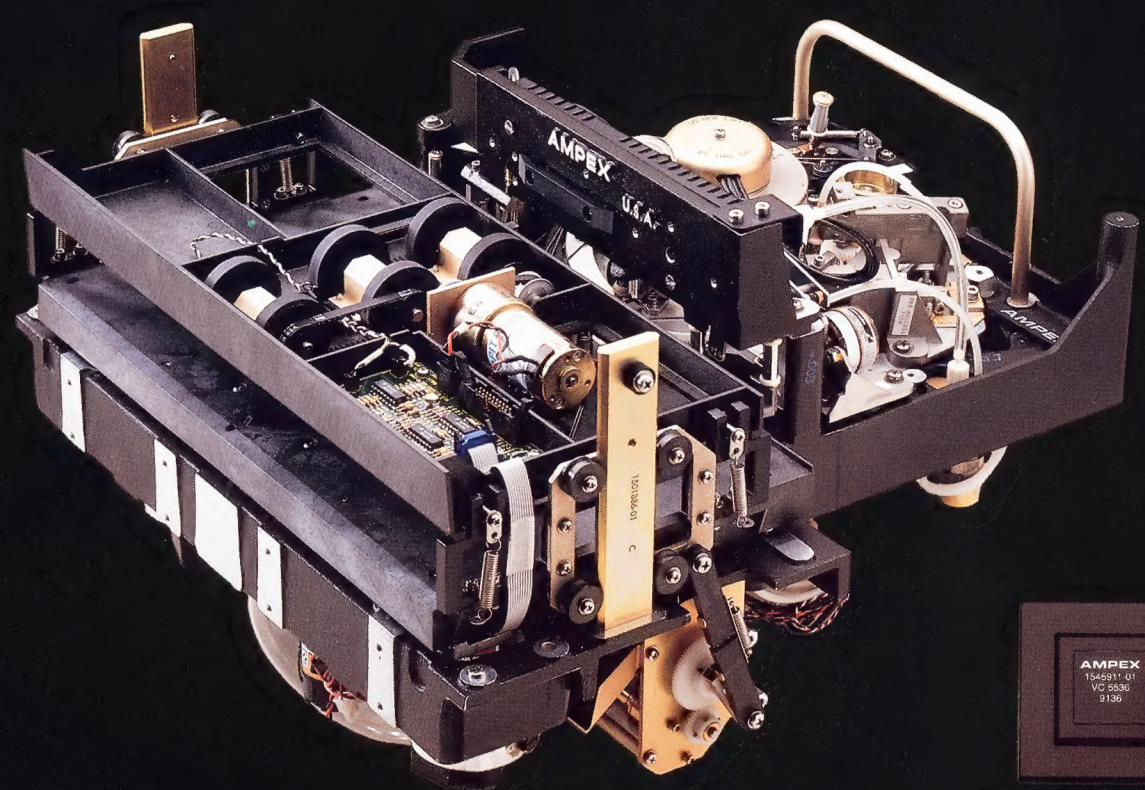


See it. Believe it.

AMPEX DCT™



Precision Mechanics and Precision Electronics

Videotape recording is a mechanical process. The best electronics in the world are compromised without precision mechanics.

That's why Ampex built upon the engineering reputation established with the Ampex VPR-3 and VPR-300 to give the DCT 700d the most advanced mechanical platform in the world.

Digital recording demands tight tolerances, and those tolerances must be maintained shuttle after shuttle, hour after hour, day after day.

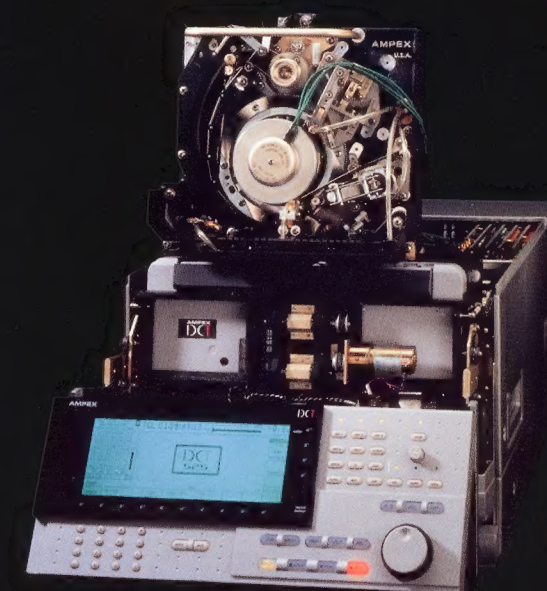
But the drive must also handle ultra-thin tapes with unerring precision, so we designed the DCT 700d with frictionless air-lubricated tape guides and eliminated the pinch roller used in less-sophisticated tape drives, resulting in the gentlest tape handling in the world. This allows the tape to be accelerated to full wind speed in less than one second.

The drive employs both co-planar and helical threading and can read timecode without the tape touching the video heads, reducing wear and tear on the tape, heads, and your valuable time.

The DCT 700d contains over 100 ASICs, all designed by Ampex engineers exclusively for this machine.

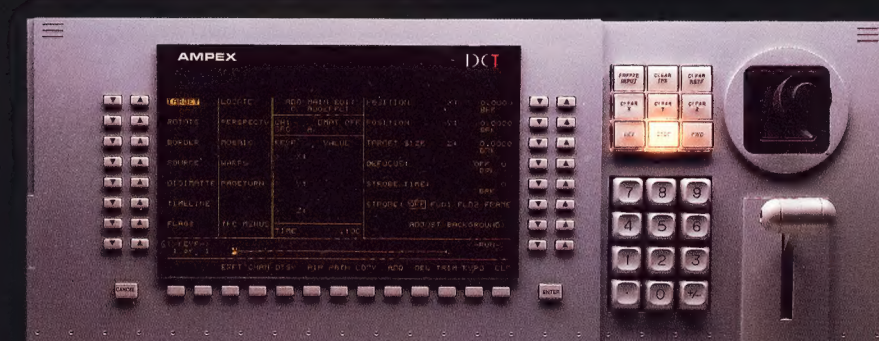
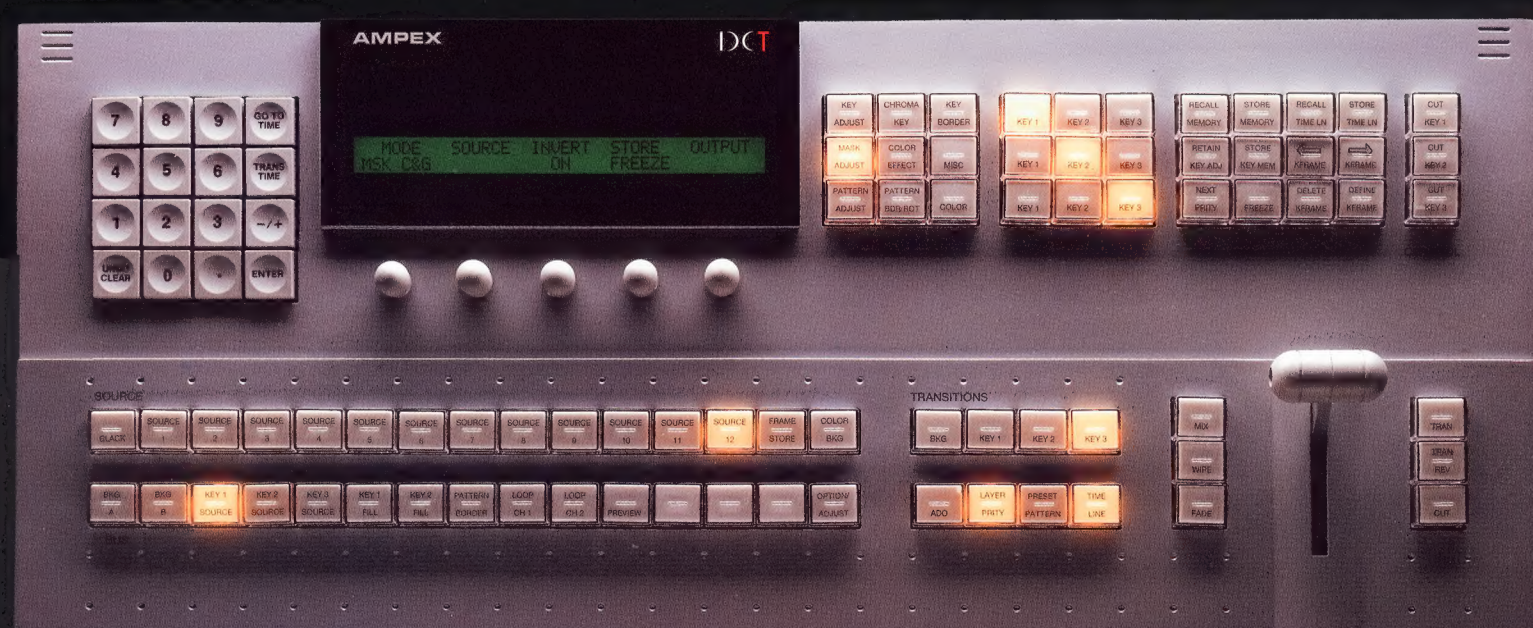
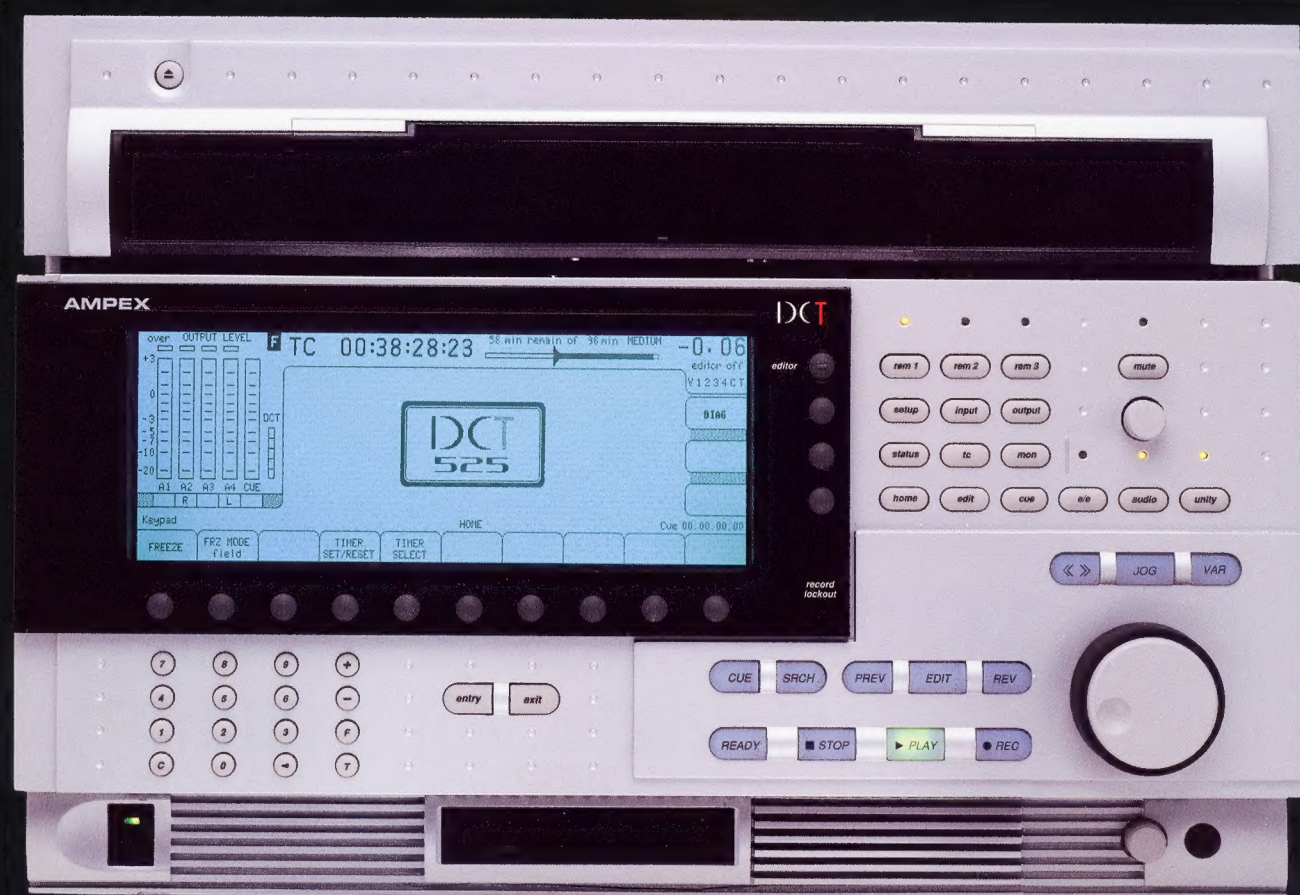
Ampex is one of the few video companies in the world that has its own ASIC design center. In fact, only a handful of semiconductor manufacturers have a facility this advanced.

It is this kind of commitment to leading-edge technologies that sets DCT apart from all others.



DCT 700d Digital Component Tape Drive

The DCT 700d tape drive shares the same robust, durable, field-proven 19mm transport as other recorders such as Ampex D-2 and DST (Data Storage Technology) drives. This rugged tape drive accelerates to full wind speed in less than one second, making the DCT 700d the fastest editing digital component tape drive in the industry. A clean, functional control panel with a large interactive status display and soft keys contributes to efficient operation. Full featured editing capabilities include Animation Mode.



1 DCT 700s Digital Component Post Production Switcher

The DCT 700s is a digital component combiner which brings an unprecedented variety of multilayer capabilities to the mid-range post-production environment. The DCT 700s provides users a complete layering tool, with powerful keys, flexible wipes, total layer priority transition control, the superb quality and performance customers have come to expect from digital component equipment.

2 DCT 700e Computerized Edit Controller

The DCT 700e is a dual line-standard video tape editor that controls up to 7 VTRs, a video switcher, an audio mixer and 16 GPUs in one edit pass. Interfaces to a wide range of VTRs, ATRs, video switchers, audio mixers and digital effects devices, by Ampex and other manufacturers, are offered.

3 DCT 500a ADO® Digital Effects

The DCT 500a system combines exciting effects like 3-D page turns and warps, with Ampex's unparalleled digital signal processing quality. This unique combination, plus the system's accessible and easy-to-learn controls, makes DCT 500a the perfect digital effects system for the post-production facility.

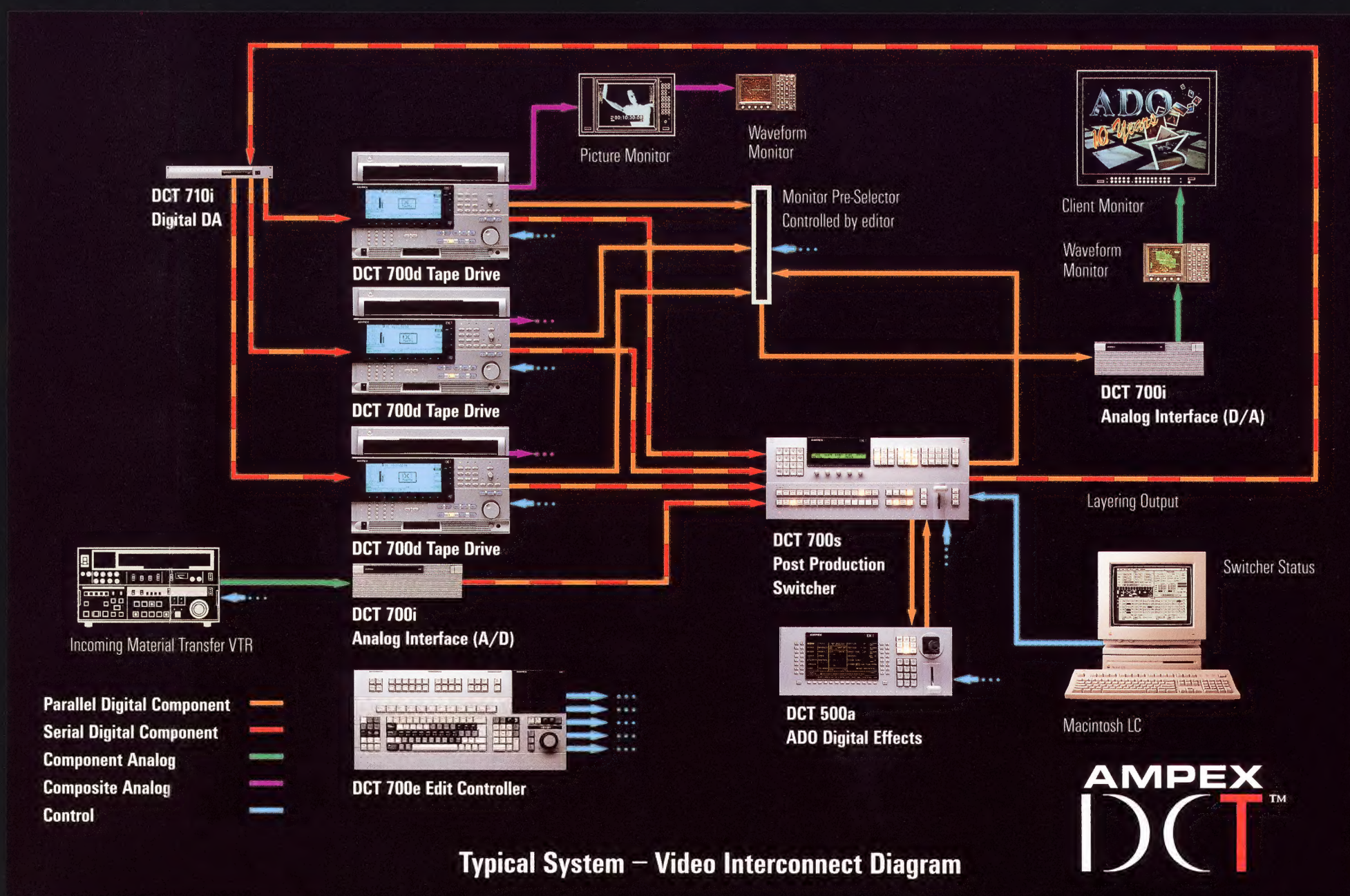
4 DCT 700i Analog Interface and DCT 710i Digital D/A

The DCT 700i provides the interface between the analog component television environment and the digital component DCT environment. It can handle up to 8 analog-to-digital or digital-to-analog converters in one three-rack-unit high module, with R.G.B or R. R-Y, B-Y inputs and CCIR-601 outputs.

The DCT 710i distribution amplifier provides multiple digital video feeds from a single source, such as multiple tape drives in a post-production layering system. Several configurations are available for both serial and parallel systems for flexibility and economy.

5 DCT 700t Series Tape Cartridge

The DCT tape cartridge has been designed as an integral part of the DCT system. The formulation and process have been developed to produce a tape with exceptional performance characteristics and unsurpassed consistency to deliver flawless picture quality. The cartridge is available in small, medium and large cartridges for a wide variety of play lengths.



525
625

All components of the DCT system are 525/625 switchable and 16x9 ready.

Typical System – Video Interconnect Diagram

AMPEX DCT™